GST IN - 29A

BRUHAT BANGALORE MAHANAGARA PALIKE

FORM PWG - 45 WORK SLIP STATEMENT

Name of the Work: Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 12

Name of the Contractor: NAGARAJU LINGAIAH (VEDHA ELECTRICALS)

Sanctioned Estimate Amount: Rs. 2,39,49,000.00

Sanctioned Tender Amount: Rs. 2,41,51,398.65

Operative Tender Premium 6.50%

Sln o	Sr Page NO	Description of Item	Unit	Sanctioned Estimate			As per Tender (BOQ)			Executed	Upto 125%			Above 125%			Total Amount as per actuals	Excess	Remarks
				Qty	Rate	Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount			
14	30/5 4 2 2	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting fully weather proof with provision for better heat dissipation provided with hinged front cover equipped with tamper proof locking arrangements with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc complete 16SWG	Mtrs	75000	0 35	26250	75000	0 37275	27956 25	245000 00	93750 00	0 37	34945 313	151250	0 37275	56378 438	91323 75	63357 50	
16	27/5 1 4 7	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood'panel board using necessary screws bolts nuts necessary phase separators handle and wiring complete Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947 (Icu = Ics)FOUR POLE 100Amps 25kA	Nos	2	6400	12800	2	6816	13632	7 00	3 00	6816 00	20448	4	6816	27264	47712	34080 00	
17	32/5 4 8	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts nuts and washers	Nos	2	4030	8060	2	4291 95	8583 9	7 00	3 00	4291 95	12875 85	4	4291 95	17167 8	30043 65	21459 75	
18	25/5 1 3 4	Supply and fixing of 4pole power contactor with N/O/NC contacts on existing wood/panel board using necessary bolts nuts washers and wiring etc complete with AC-3 Rating and as per IS-13947 100 to 125Amps	Nos	2	7200	14400	2	7668	15336	7 00	3 00	7668 00	23004	4	7668	30672	53676 00	38340 00	
19	27/5 1 7 9	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve indicator ON/OFF energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 50-63Amps TPN	Nos	8	2397	19176	8	2552 805	20422 44	10 00	10 00	2552 81	25528	0	0	0	25528 05	5105 61	
20	10/3 8	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulators etc., and fixing on existing wooden or metal box using N F screws	Sqcms	10000	0 27	2700	10000	0 28755	2875 5	70000 00	12500 00	0 29	3594 38	57500 00	0 29	16534 13	20128 50	17253 00	

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28	145/300/41 07	1 1 kV LT Aenal Bunched Cable, confirming to IS-14255 1995 XLPE insulation Parameter shall be as below 1 Hot Set Test a) Elongation under Load 50% (Max) b) Permanent Elongation After Cooloing 3% (Max) 2 Thermal Aging in oven a) Tensile Strength 16 N/mm^2 (Min) b) Elongation 375% (Min) 3 Water Absorption Test a) Water absorbed 0 5 mg/cm^2 (Max) 4 Carbon Black Content shall be ranging from 2% to 3% 3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger cum Neutral)	Mtrs	1 05	147000	154350	1 05	156555	164382 75	6.205	1 31	156555 00	205478 44	4 89	156555 00	765945 34	971423 78	807041 03	
29	224/270/340 4	Stringing of 1 1 kV grade Aenal Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control)	Mtrs	1 05	22469	23592 45	1 05	23929 485	25125 95 125	6.205	1 31	23929 49	31407 45	4 89	23929 485	117075 01	148482 45	123356 50	
		Total Rs				261328.45			278314.7993				357281			1031037	1388318.179	1110003.38	

For Vedha Electricals

Agency

Proprietor

Percentage of excess comparing to the sanctioned Estimated cost =

$$\frac{1110003.38}{23949000.00} \times 100 = 4.63\ \%$$

JE/AE(Electrical)
BBMP ,DZ

AEE(Electrical)
BBMP ,DZ

Executive Engineer (Ele)
BBMP ,DZ

Superintendent Engineer(Elec)
BBMP

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PWG -71 EXTRA ITEM RATE LIST STATEMENT

Name of the Work:- Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 12

Client : Bruhat Bangalore Mahanagara palike

Agency :NAGARAJU LINGAIAH (VEDHA ELECTRICALS)

lo	SR Page No & Item No	Item of Work	Unit	Approximate Quantity	Rate	Amount In Rs	Whether the items are alternative to items in the tender or wherther they are additional items (If items are in lieu of some items in the accepted tender, such items should be metioned	Wherther the extra item is included in the sanctioned estimate	How the extra cost of the item is propposed to be met	Whether the extra item is included in the suchedule of rate of the Division. If so reference to this item of the schedule to be given , if not data sheets should accompany the rate list	Remarks
1	66/12.7/ 12.7.2	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass matenal, delivering supenor light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection Compatible for pole mounting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB LED Efficiency>130lm/w, nominal CRI >75 Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer &Cree/Nichia/Lumileds/Osram make LED Source LED Post Top Lantern with 35 watts	Nos	75	6816 00	511200 00	Additional Item	No	in the savings of other items in the same estimate	KPWD ELE SR 2019-20	

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2	66/12.8.5	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation, Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees CCT > 5500K IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0.9 with mains Surge Protection- Min 5KV along with Over voltage/ Overload short circuit/ miss-wiring protection Compatible for pole mouting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS, UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Powerconsumption LED Efficiency>130lm/w, nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source LED Streetlight 120 Watts	Nos	105	9798.00	1028790.00	Additional Item	No	In the savings of other items in the same estimate	KPWD ELE SR 2019-20	

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3	67/12 9/ 12 9 3	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload short circuit/ miss-wiring protection Compatible for pole mouting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Power consumption LED Efficiency>130lm/w, nominal CRI >75 Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/Lumileds/Osram make LED Source LED Floodlight 120W	Each	6	9372.00	56232.00	Additional Item	No	in the savings of other items in the same estimate	SR of PWD 18-19 & Issue rates	
4	13/4 2/4 2 1	Fabricating, supplying and erection of Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom mm, top mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc (excluding foundation) as per drawing appended 3 meters - Top 70mm and bottom 130mm dia	Each	75	5708.4	428130.00	Additional Item	No	in the savings of other items in the same estimate	KPWD ELE SR 2019-20	
5	PWD Civil SR 2018-19	Eartwork excavation for foundation of buildings,water supply sanitary lines and electrical conduits either in pits or in trenches 1 5m and above in width, in ordinary soil not exceeding 1 5 m in depth including dressing the bottom and sides of pits and trenches stacking the excavated soil clear from edges of excavation with lead upto 50m including breaking of clods complete as per specifications KSRB 2 1 1 - do-Ordinary soil	Cum	18.75	362.7816	6802.16	Additional Item	No	in the savings of other items in the same estimate	PWD Civil SR 2018-19	

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6	PWD Civil SR 2018-19	KSRB 4 6 1 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications (p NO-16, I No-4 28)	Sqmtrs	32 40	291 2562	9436 70	Additional Item	No	in the savings of other items in the same estimate	PWD Civil SR 2018-19	
7	PWD Civil SR 2018-19	KSRRB Providing and laying in position plain cement concrete of nominal mix 1 4 8 with OPC @ 180Kgs with using 20 mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0 57cum mechine mixed concrete laid in layers not exceeding 15cm thick well compacted in foundation and plinth including cost of all materials ,labour HOM machinaries ,cunng complete as per specifications KBS 4 1 4 2	Cum	0 9375	6181 05	5794 73	Additional Item	No	in the savings of other items in the same estimate	PWD Civil SR 2018-19	
8	PWD Civil SR 2018-19	KSRB 4 9 2 Providing T M T steel reinforcement for R C C work including straightening cutting bending hooking placing in position lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery omplete as per specifications Specification No KBS 4 6 3 (12mm 0 89kgm & 8mm 0 39kg/m @ 150mm c/c)	Kgs	582 48	98 6829	57480 82	Additional Item	No	in the savings of other items in the same estimate	PWD Civil SR 2018-19	
9	PWD Civil SR 2018-19	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R C C works laid in 15 cms thick layers and well compacted vibrating, curing for raft foundation column footing , main and secondary beams with all lead and lifts etc , complete (exclusiveof cost of steel and fabrication charges)4 48	cum	8 10	6894 90	55848 65	Additional Item	No	in the savings of other items in the same estimate	PWD Civil SR 2018-19	
		Total Rs				2159715 05					
		Add GST 12% on Total				259165 81					
		EIRL TOTAL				2418880.86					

Total Amount of Sanctioned Tender	=	23949000.00
Net Excess Amount of EIRL	=	2418880.86
Total % excess to the Tendered Amoun	=	10.10 %

JE/AE(Electrical)
BBMP ,DZ

AEE(Electrical)
BBMP ,DZ

Executive Engineer (Ele)
BBMP ,DZ

Superintendent Engineer(Elec)
BBMP

Agency
For Vedha Electricals

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of the Work : Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 12

Sanctioned Estimate Amount: Rs. 2,39,49,000 00

Sanctioned Tender Amount: Rs. 2,41,51,398 65

Operative Tender Premium 6 50%

Name of the Contractor: NAGARAJU LINGAIAH (VEDHA ELECTRICALS)

COMPARATIVE STATEMENT

Sl no	Sr Page NO	Description of Item	Unit	Sanctioned Estimate			As per Tender (BOQ)			Executed	Upto 125%			Above 125%			Total Amount as per actuals	Excess	Savings	Remarks
				Qty	Rate	Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount				
1	66/12.8.4	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70% maximum light intensity should be between 60 degrees to 70 degrees CCT > 5500K IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains Surge Protection-Min 5KV along with Over voltage/ Overload short circuit/ miss-wiring protection Compatible for pole mouting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Powerconsumption LED Efficiency>130lm/w nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source LED Streetlight 90 Watts	Nos	1900	7160	13604000	1900	7625 4	14488260	1800 00								13725720 00	0 00	762540 00	
2	13/4.1.1	Fabricating supplying and erecting swaged tubular pole of height Mtr having three sections and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M S base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7 5M pole/200x160x95mm for remaining length of pole with front opening cover with locking arrangements and suitable capacity MCB / DP switch The pole shall be erected in cement concrete work (1 2 4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0 6M above ground level as per IS 2713 - 7 Erection of heavy duty pole on Footpath / median 9Mt (5Mt Hb 165 1mm dia 4 85mm thick x2M Hm 139 7mm dia 4 50mm thick x 2M Ht 114 3mm dia 3 65mm thick) as per IS 410 SP 32	Nos	170	13200	2244000	170	14058	2389860	106.00								1490148 00	0 00	899712 00	
3	16/4.7.2	Supplying and fixing of Hot dip Galvanized M S Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts nuts etc complete Single Arm Bracket with 1500mm Standard 40/50MM dia	Nos	170	2112	359040	170	2249 28	382377 6	106 00							238423 68	0 00	143553 92	#REF!
4	79/14.5	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps bolts nuts and wiring using suitable capacity wires	Nos	1900	175	332500	1900	186 375	354112.5	1800 00							335475 00	0 00	18637 50	
5	79/14.1.2	Supplying and Fixing of mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps bolts and nuts and wiring using suitable capacity wires Using 32mm dia G I Pipe	Nos	1750	835	1461250	1750	889 275	1556231 25	1750 00							1556231 25	0 00	0 00	
6	40/6.4.4	Supplying of 1 1 KV LT UG cable XLPE or Heat resistant PVC insulated PVC extruded inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part 1 Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs	6400	150	960000	6400	159 75	1022400	1200 00							191700 00	0 00	830700 00	
7	7/2.7/2.7.1	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring 4 sqmm	Mtrs	4900	9	44100	4900	9 585	46966 5	4900 00							46966 50	0 00	0 00	

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Sl no	Sr Page NO	Description of Item	Unit	Sanctioned Estimate			As per Tender (BOQ)			Executed	Upto 125%			Above 125%			Total Amount as per actuals	Excess	Savings	Remarks
				Qty	Rate	Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount				
8	40/6.45	Supplying of 1 1 KV LT UG cable XLPE or Heat resistant PVC insulated PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1 Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3 5 core 25 sqmm	Mtrs	678	180	122040	678	191 7	129972 6	678 00							129972 60	0 00	0 00	
9	41/6 5 1	Labour charges for laying of 1 1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required 6 sqmm to 16 sqmm	Mtrs	6400	11 88	76032	6400	12 6522	80974 08	1200 00							15182 64	0 00	65791 44	
10	41/6.5 .2	Labour charges for laying of 1 1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required 25sqmm to 75 sqmm	Mtrs	1000	15 5	15500	1000	16 5075	16507 5	678 00							11192 09	0 00	5315 42	
11	41/6 6 1	Digging of trench of 0 6m deep x 0 50 mtr wide refilling the trench to the required ground level and consolidating etc complete (As per Civil SR KSRB I-2 P 7)In soil (ordinary)	Mtrs	5800	76	440800	5800	80 94	469452	1000 00							80940 00	0 00	388512 00	
12	40/6.1	Supplying fixing wiring earth electrode for grounding conduits I C cutouts and other equipment's on the meter board using 40mm dia 2 90mm thick GI pipe 2 5 mtr long buried in a pit The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth The connection from the pipe to the conduit etc is to be established through GI wire of size as per ISI specification 7 3 3 of IS 732 using 12mm dia bolts nuts washers and check nuts etc the pipe shall have 16 through holes of 12 mm dia	Nos	8	2999 7	23997 6	8	3194 6805	25557 444	8 00							25557 44	0 00	0 00	
13	40/6.3 1	Supplying and running of GI/Copper strips for grounding connections using necessary fixing materials as required 25x3mm GI strip	Mtrs	40	75	3000	40	79 875	3195	40 00							3195 00	0 00	0 00	
14	30/5.4 2.2	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting fully weather proof with provision for better heat dissipation provided with hinged front cover equipped with tamper proof locking arrangements with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc complete 16SWG	Sqcms	75000	0 35	26250	75000	0 37275	27956 25	245000 00	93750 00	0 37	34945 3125	151250	0 37275	56378 4375	91323 75	63367 50	0 00	
15	30/5.4 1 1	Supplying and fixing angle iron frame work fabricated out of M S angle iron and M S flat with bolts washers etc and painted with 2 coats of red oxide and then two coats of approved paint 40x40x6mm	Mtrs	25	255	6375	25	271 575	6789 375	25 00							6789 38	0 00	0 00	
16	27/5.1 4.7	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws bolts nuts necessary phase separators handle and wiring complete Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947 (Icu = Ics)FOUR POLE 100Amps 25kA	Nos	2	6400	12800	2	6816	13632	7 00	3 00	6816 00	20448	4	6816	27264	47712	34080 00	0 00	
17	32/5.4 8	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts nuts and washers	Nos	2	4030	8060	2	4291 95	8583 9	7 00	3 00	4291 95	12875 85	4	4291 95	17167 8	30043 65	21459 75	0 00	
18	26/5 1 3.4	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts nuts washers and wiring etc complete with AC-3 Rating and as per IS-13947 100 to 125Amps	Nos	2	7200	14400	2	7668	15336	7 00	3 00	7668 00	23004	4	7668	30672	53676 00	38340 00	0 00	
19	27/5.1 7.9	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve indicator ON/OFF energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 50-63Amps TPN	Nos	8	2397	19176	8	2552 805	20422 44	10 00	10 00	2552 81	25528	0	0	0	25528 05	5105 61	0 00	
20	10/3.8	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulators etc and fixing on existing wooden or metal box using N F screws	Mtrs	10000	0 27	2700	10000	0 28755	2875 5	70000 00	12500 00	0 29	3594 38	57500 00	0 29	16534 13	20128 50	17253 00	0 00	
21	6/2.5 2	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS 8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694 1990 3C X 1 5Sq mm	Mtrs	2800	55	154000	2800	58 575	164010	250 00							14643 75	0 00	149366 25	
22	6/2.3 3	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 confirming to latest amendments 6 sqmm	Mtrs	62	70	4340	62	74 55	4622 1	62 00							4622 10	0 00	0 00	
23	43/6.1 7.1	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes a) 1 5 sqmm	Nos	340	3	1020	340	3 195	1086 3	150 00							479 25	0 00	607 05	
24	6.17.4	b) Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes6 Sqmm	Nos	120	7	840	120	7 455	894 6	120 00							894 60	0 00	0 00	

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		Description of Item	Unit	Sanctioned Estimate			As per Tender (BOQ)			Executed	Upto 125%			Above 125%			Total Amount as per actuals	Excess	Savings	Remarks
				Qty	Rate	Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount				
		c) Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes16 Sqmm	Nos	1360	12 44	16918 4	1360	13 2486	18018 096	600 00							7949 16	0 00	10068 94	
		Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3 25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1 1 KV 40mm	Mtrs	10	335	3350	10	356 775	3567 75	10 00							3567 75	0 00	0 00	
		Supplying and fixing L T cast iron pot heads suitable for 1 1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals clamps bolts nuts and washers etc 25Sqmm	Nos	8	350	2800	8	372 75	2982	8 00							2982 00	0 00	0 00	
28	145/3 00/41 07	1 1 kV LT Aerial Bunched Cable confirming to IS 14255 1995 XLPE insulation Parameter shall be as below 1 Hot Set Test a) Elongation under Load 50% (Max) b) Permanent Elongation After Cooloing 3% (Max) 2 Thermal Aging in oven a) Tensile Strength 16 N/mm2 (Min) b) Elongation 375% (Min) 3 Water Absorption Test a) Water absorbed 0 5 mg/cm2 (Max) 4 Carbon Black Content shall be ranging from 2% to 3% 3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger cum Neutral)	Kms	1 05	147000	154350	1 05	156555	164382 75	6 205	1 31	156555 00	205478 44	4 89	156555 00	765945 34	971423 78	607041 03	0 00	
29	224/2 70/34 04	Stringing of 1 1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control)	Kms	1 05	22469	23592 45	1 05	23929 485	25125 95925	6 205	1 31	23929 49	31407 45	4 89	23929 485	117075 01	148482 45	123356 52	0 00	
30	128/1/ 1 01	RCC Pole - 9 Mtr Long 145 Kg WL	Nos	10	6258	62580	10	6664 77	66647 7	10 00							66647 70	0 00	0 00	
31	21/XI V/a	LT 2 Pin Cross Arm with clamps bolts nuts & washers with braces - MS for RCC pole	Set	80	274	21920	80	291 81	23344 8	80 00							23344 80	0 00	0 00	
32	22/XI X/c	c) No 8 Strain Insulator	Nos	30	16	480	30	17 04	511 2	30 00							511 20	0 00	0 00	
33	225/3 04/35 02	Laying of UG Cables by trenchless technology by adopting horizontal boring & Drawing of cable including preparation at site With HDPE Pipe i) Normal soil 5/6" bore size	Mtrs	30	848	25440	30	903 12	27093 6	30 00							27093 60	0 00	0 00	
		Total Rs				20247651 45			**21563748 79**								**19398547 65**	**1110003 33**	**3275204 51**	
		gst12%				2429718 174			2587649 855											
		5% Tender premium +1% PMC charges				1214859 09														
		Bescom Charges				56771 29														
		Grand Total				23949000 00			**24151398 65**											
		EXTRA ITEMS (EIRL) SR+Tender Premium (5%)																		
1	66/12 7/12.7 .2	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70% CCT > 5500K IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains Surge Protection- Min 5KV along with Over voltage/Overload short circuit/ miss-wiring protection Compatible for pole mounting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB LED Efficiency>130lm/w nominal CRI >75 Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/Lumileds/Osram make LED Source LED Post Top Lantern with 35 watts	Nos	75	6400 00	480000 00	75	6816 00	511200 00	75 00				75	6816	511200	511200 00	511200 00		

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	Description of Item	Unit	Sanctioned Estimate			As per Tender (BOQ)			Executed	Upto 125%			Above 125%			Total Amount as per actuals	Excess	Savings
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount			
	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70% maximum light intensity should be between 60 degrees to 70 degrees CCT > 5500K IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains Surge Protection- Min 5KV along with Over voltage/ Overload short circuit/ miss-wiring protection Compatible for pole mounting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Powerconsumption LED Efficiency>130lm/w nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source LED Streetlight 120 Watts	Nos	105	9200 00	966000 00	105	9798 00	1028790 00	105 00							1028790 00	1028790 00	
	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70% CCT > 5500K IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains Surge Protection- Min 5KV along with Over voltage/Overload short circuit/ miss-wiring protection Compatible for pole mounting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Power consumption LED Efficiency>130lm/w nominal CRI >75 Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/Lumileds/Osram make LED Source LED Floodlight 120W	Each	6	8800 00	52800 00	6	9372 00	56232 00	6 00						56232 00	56232 00	56232 00	
	Fabricating supplying and erection of Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft IS 2062 for base plate with door opening arrangements including suitable boards Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom mm top mm with 3mm thick suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM A123 and 153 etc (excluding foundation) as per drawing appended 3 meters Top 70mm and bottom 130mm dia	Each	75	5360 00	402000 00	75	5708	428130 00	75 00						428130 00	428130 00		
	Earthwork excavation for foundation of buildings water supply sanitary lines and electrical conduits either in pits or in trenches 1 5m and above in width in ordinary soil not exceeding 1 5 m in depth including dressing the bottom and sides of pits and trenches stacking the excavated soil clear from edges of excavation with lead upto 50m including breaking of clods complete as per specifications KSRB 2 1 1 do-Ordinary soil	Cum	18 75	340 64	6387 00	18 75	362 78	6802 16	18 75						6802 16	6802 16		

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Description of Item	Unit	Sanctioned Estimate			As per Tender (BOQ)			Executed	Upto 125%			Above 125%			Total Amount as per actuals	Excess	Savings	Remarks
		Qty	Rate	Amount	Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount				
3 4 6 1 Provding and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications (p NO-16 I No-4 28)	Sqmtrs	32 40	273 48	8860 75	32 40	291 26	9436 70	32 40							9436 70	9436 70		
KSRRB Providing and laying in position plain cement concrete of nominal mix 1 4 8 with OPC @ 180Kgs with using 40 mm and down size graded granite metal coarse aggregates @0 85cum and fine aggregates @ 0 57cum mechine mixed concrete laid in layers not exceeding 15cm thick well compacted in foundation and plinth including cost of all materials ,labour HOM machinanes ,cunng complete as per specifications KBS 4 1 4 2	Cum	0 9375	5803 80	5441 06	0 9375	6181 05	5794 73	0 9375							5794 73	5794 73		
KSRB 4 9 2 Providing T M .T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery omplete as per specifications. Specification No KBS 4 6 3 (12mm 0 89kgm & 8mm, 0.39kg/m @ 150mm c/c)	Kgs	582 48	92 66	53972 60	582 48	98 68	57480 82	582 48							57480 82	57480 82		
Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R C C works laid in 15 cms thick layers and well compacted vibrating, cunng, for raft foundation column footing, main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges)4 48	cum	8 10	6474 08	52440 05	8 10	6894 90	55848 65	8 10							55848 65	55848 65		
EIRL Total							2159715.05								21558262.72	3269718.43	3275204.51	
Total Rs				2027901.46			259165.81								2586991.53			
Add GST 12% on Total							2418880.86								24145254.24			
Total Rs																		

Total Sanctioned Tender Amount Rs. 24151398.65

Total cost of the project after Work slip and EIRL Rs. 24145254.24

Net Savings Amount Rs. 6144.41

Total % Savings to the Tendered Amount 0.025

Hence there is no Extra Financial Implication to BBMP.

here also

For Vedha Electricals

Proprietor

JE/AE(Electrical)
BBMP ,DZ

AEE(Electrical)
BBMP ,DZ

Executive Engineer (Ele)
BBMP ,DZ

Superintendent Engineer(Elec)
BBMP

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